Fo. receiving Office use only	
International Application No.	
International Filing Date	
Name of receiving Office and "PCT International Application"	,

REQUEST	International Filing Dat	te	
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.		ce and "PCT International Application"	
	Applicant's or agent's	file reference	
[(if desired) (12 characte	ers maximum) 820701-2810	
Box No. I TITLE OF INVENTION ENGINEERING ENZYMES THROUGH GENET	TIC SELECTION		
Box No. II APPLICANT This person	n is also inventor		
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of residen	he address indicated in this	Telephone No.	
Georgia Tech Research Corporation 505 Tenth Street, N.E.		Facsimile No.	
Atlanta, Georgia 30332-0415		Teleprinter No.	
US		Applicant's registration No. with the Office	
State (that is, country) of nationality: US	State (that is, country) US	of residence:	
This person is applicant for the purposes of: all designated States all designated the United S		the United States the States indicated in the Supplemental Box	
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	HER) INVENTOR(S)		
Name and address: (Family name followed by given name: for a legal ent The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of residen	he address indicated in this	This person is:	
DOYLE, Donald F.		applicant and inventor	
3740 Liberty Lane		inventor only (If this check-box is	
Marietta, Georgia 30062-5928 US		marked, do not fill in below.)	
		Applicant's registration No. with the Office	
State (that is, country) of nationality: US	State (that is, country) US	of residence:	
	ed States except tates of America	the United States of America only the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicated on a continuation sheet.			
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE			
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities		agent common representative	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) Top-933-9500			
VORNDRAN, Charles Thomas, Kayden, Horstemeyer & Risley LLP		Facsimile No. 770-951-0933	
100 Galleria Parkway, Suite 1750 Atlanta, Georgia 30339		Teleprinter No.	
US SCORPIA SOCIAL		Agent's registration No. with the Office	
		45,315	
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.			

		2
Sheet	No	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)			
If none of the following sub-boxes is used, this sheet should not	be included in the req	uest.	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) SCHWIMMER, Lauren J. 3102 G Spring Hill Parkway Smyrna, Georgia 30080 US		This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality: US	State (that is, country)	of residence:	
This person is applicant all designated for the purposes of: all designated the United States all designated the United States.	States except ates of America	the United States the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence and the State of the State	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality: US	State (that is, country)	of residence:	
	States except ates of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entil The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality:	State (that is, country,	of residence:	
This person is applicant all designated all designated for the purposes of:	I States except ates of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality:	State (that is, country)	of residence:	
	I States except ates of America	the United States of America only the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicated of	on another continuation	sheet.	

Sheet No.	3	

Box No. V DESIGNATIONS				
The filing of this request cor filing date, for the grant of e	stitutes under Rule 4.9(a), to every kind of protection available.	he designation of all Contrable and, where applicable,	acting States bound by the for the grant of both reg	ne PCT on the international gional and national patents.
However,				
DE Germany is not d	esignated for any kind of nat	ional protection		
KR Republic of Kore	a is not designated for any k	ind of national protection		
RU Russian Federation	on is not designated for any k	cind of national protection		
the national law, of an earlie	be used to exclude (irrevocate er national application from v s in these and certain other S	vhich priority is claimed. S	ned in order to avoid the lee the Notes to Box No. 1	ceasing of the effect, under V as to the consequences of
Box No. VI PRIORITY	CLAIM			
The priority of the following	gearlier application(s) is here	by claimed:		
Filing date	Number of earlier application	v	Vhere earlier application	is:
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) 17 November 2003 (17.11.2003)	60/520,754	us		
item (2) 17 November 2003 (17.11.2003)	60/520,813	us		
item (3) 18 October 2004 (18.10.2004)	Unassigned	us		
	are indicated in the Suppleme	ental Box.		
	ested to prepare and transmit t led with the Office which for t			
x all items it	em (1)	2)	other, se	ee Supplemental Box
* Where the earlier applicati Industrial Property or one M	on is an ARIPO application, i lember of the World Trade O	ndicate at least one country rganization for which that e	party to the Paris Conve carlier application was fi	ention for the Protection of led (Rule 4.10(b)(ii)):
Box No. VII INTERNAT	TIONAL SEARCHING AU	THORITY		
Choice of International Seinternational search, indicate	arching Authority (ISA) (if a the Authority chosen; the two	two or more International So-letter code may be used):	earching Authorities are	competent to carry out the
ISA / US				
Request to use results of ea International Searching Auth	rlier search; reference to t	hat search (if an earlier se	arch has been carried ou	at by or requested from the
Date (day/month/year)	Numi	ber Coun	try (or regional Office)	
Box No. VIII DECLARATIONS				
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable Number of check-boxes below and indicate in the right column the number of each type of declaration): Number of declarations				
Box No. VIII (i) Declaration as to the identity of the inventor :				
Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent				
Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application				
Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America):				
Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty				

		4
Sheet	No	4

Box No. IX CHECK LIST; LANGUAGE OF FILING					
This international application contains: (a) in paper form, the following number of sheets:	ng Number of items				
request (including	1. 🔀 fee calculation sheet	:			
declaration sheets) : 4	2. original separate power of attorney	:			
description (excluding sequence listing and/or	3. original general power of attorney	:			
tables related thereto) : 49	4. Copy of general power of attorney; reference number				
claims : 4	if any:	· · · · · · · · · · · · · · · · · · ·			
abstract : 1	5. statement explaining lack of signature	:			
drawings : 13	6. priority document(s) identified in Box No. VI as item(s):				
Sub-total number of sheets: 71 sequence listing: 23	7. translation of international application into (language):				
tables related thereto : (for both, actual number of	8. separate indications concerning deposited microorg or other biological material				
sheets if filed in paper form, whether or not also filed in	9. sequence listing in computer readable form (indicate type and number of carriers)	·			
computer readable form; see (c) below)	(i) 🔀 copy submitted for the purposes of international s Rule 13ter only (and not as part of the internation	search under al application) :			
Total number of sheets : 94 (b) only in computer readable form (Section 801(a)(i))	(ii) (only where check-box (b)(i) or (c)(i) is marked in least additional copies including, where applicable, the purposes of international search under Rule 13ter	:			
(i) sequence listing (ii) tables related thereto	(iii) together with relevant statement as to the identity copies with the sequence listing mentioned in left	of the copy or column :			
(c) also in computer readable form (Section 801(a)(ii))	10. tables in computer readable form related to sequence (indicate type and number of carriers)	listing			
(i) ☐ sequence listing (ii) ☐ tables related thereto	 (i) copy submitted for the purposes of international section 802(b-quater) only (and not as part of the application) 	search under e international :			
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	(ii) (only where check-box (b)(ii) or (c)(ii) is marked in additional copies including, where applicable, the purposes of international search under Section 80	left column) e copy for the			
sequence listing:	(iii) together with relevant statement as to the identity copies with the tables mentioned in left column				
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. other (specify):				
Figure of the drawings which should accompany the abstract:	Language of filing of the international application: English				
	Γ, AGENT OR COMMON REPRESENTATIVE ning and the capacity is not obvio	nus from reading the request).			
Chales Vond					
Charles Vorndran, Reg. No. 45,315					
For receiving Office use only					
Date of actual receipt of the purported international application:	2. Drawings:				
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:					
4. Date of timely receipt of the required corrections under PCT Article 11(2):					
5. International Searching Authority (if two or more are competent): ISA / 6. Transmittal of search copy delayed until search fee is paid					
For International Bureau use only					
Date of receipt of the record copy by the International Bureau:					